

# High Rel Epoxy Coated Thermistor



- ESCC Qualified.
- Excellent stability.
- Flight heritage.
- Ease of mounting.
- Robust construction.
- Data Report including test data.
- Non ITAR restrictive.
- Approved by Prime Contractors
- ESCC Detail Specification No. 4006013.
- ESCC Part No. 400601306

## DESCRIPTION

Epoxy coated discrete NTC Thermistor chip soldered to 30AWG Tin/Lead (63/37) plated copper wires.

## FEATURES

ESCC qualified.  
ESCC Detail Specification No. 4006013  
ESCC Part No. 400601306.  
Epoxy coated.  
30AWG Tin/Lead (63/37) plated copper wires  
Operating temperature range: -55°C to + 115°C.

## APPLICATIONS

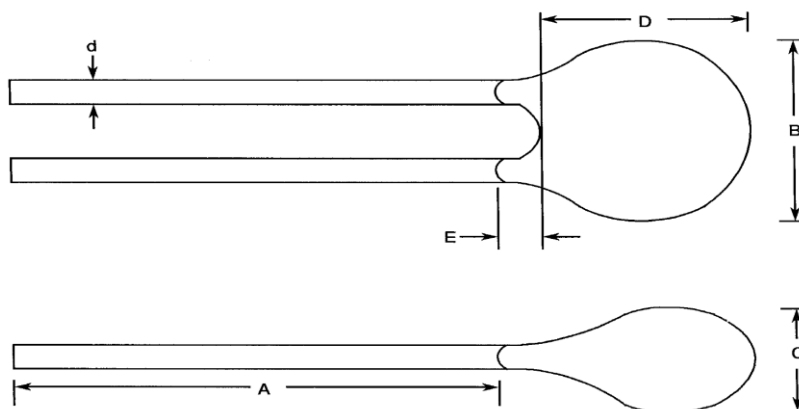
Satellite electric motors  
Monitoring of gearboxes in satellites  
Temperature compensation  
Battery power packs  
Control panel monitoring  
Monitoring of actuators  
Panel temperature measurement

## PERFORMANCE SPECS

Resistance @ +25°C	Ω	10,000
Tolerance @ -55°C	%	± 3.70
Tolerance @ -40°C	%	± 2.33
Tolerance @ -25°C	%	± 2.10
Tolerance @ 0°C	%	± 1.02
Tolerance @ +25°C	%	± 0.88
Tolerance @ +75°C	%	± 1.16
Tolerance @ +100°C	%	± 1.46
Tolerance @ +115°C	%	± 1.36
0/50 Beta value	K	3892
Operating Range	°C	-55 to +115
Storage Temp	°C	-55 to +115
Power Dissipation	mW	2
Thermal Time Constant	s	25
Weight	g	0.5 max

# High Rel Epoxy Coated Thermistor

## MECHANICAL DETAILS



Dimensions						
	A	B	C	D	d	E
Min	50.8	-	-	-	0.23	-
Max	-	2.54	2.54	3.50	0.28	1.6

## RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
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-55	959,790
-50	667,828
-45	450,609
-40	335,670
-35	242,195
-30	175,683
-25	130,244
-20	96,974
-15	72,895
-10	55,298
-5	42,314
0	32,650
1	31,030
2	29,500
3	28,054
4	26,678
5	25,395
6	24,172
7	23,016
8	21,921
9	20,885
10	19,903

Temp. °C	Ohms
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11	18,973
12	18,092
13	17,257
14	16,465
15	15,714
16	15,001
17	14,324
18	13,682
19	13,052
20	12,493
21	11,943
22	11,420
23	10,922
24	10,449
<b>25</b>	<b>10,000</b>
26	9,572
27	9,164
28	8,777
29	8,407
30	8,056
31	7,720
32	7,401

Temp. °C	Ohms
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33	7,097
34	6,807
35	6,530
36	6,266
37	6,014
38	5,773
39	5,544
40	5,324
41	5,115
42	4,915
43	4,724
44	4,541
45	4,366
46	4,199
47	4,040
48	3,887
49	3,741
50	3,601
51	3,466
52	3,338
53	3,215
54	3,097

Temp. °C	Ohms
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55	2,985
56	2,876
57	2,773
58	2,673
59	2,578
60	2,487
61	2,399
62	2,315
63	2,234
64	2,156
65	2,082
66	2,010
67	1,942
68	1,876
69	1,812
70	1,751
80	1,256
90	916
100	678
105	587
110	510
115	444

# High Rel Epoxy Coated Thermistor

## ORDERING INFORMATION

Part Number	Description	Res. at 25°C	ESCC No.
10K3A739	Hi-Rel Leaded Discrete	10,000	400601306

### NORTH AMERICA

Measurement Specialties, Inc.  
910 Turnpike Road  
Shrewsbury, MA 01545  
Tel: 1-508-842-0516  
Fax: 1-508-842-0342  
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[temperature.cs.amer@meas-spec.com](mailto:temperature.cs.amer@meas-spec.com)

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Fax: +353-91-770789  
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[temperature.cs.emea@meas-spec.com](mailto:temperature.cs.emea@meas-spec.com)

### ASIA

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No. 26, Langshan Road,  
Shenzhen High-tech Park (North)  
Nanshan District, Shenzhen,  
China 518057  
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[temperature.cs.asia@meas-spec.com](mailto:temperature.cs.asia@meas-spec.com)

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